# 数据库设计

## 1.1 主链信息表 main\_chain\_info

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 类型 | 约束 | 备注 |
| id | bigint | 主键 | ID |
| child\_chain\_count | bigint |  | 子链的个数 |
| contract\_address | varchar |  | 主链合约地址 |
| contract\_code | text |  | 主链合约内容 |

## 1.2 子链信息表 child\_chain\_info

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 类型 | 约束 | 备注 |
| chain\_id | bigint | 主键 | 链ID |
| chain\_create\_info | varchar |  | 链的创世信息，如果是主链则为空。子链的话，从合约中读取childChainid\_1 |
| chain\_dynamic\_info | varchar |  | 链的动态信息，如果是主链则为空；子链的话，从合约中读取  childChainid\_info\_1 |

## 1.4 区块信息表 block\_info

childChainBlock\_2\_ff46fab5f74fdd4b00062d67f5dda59df78d9082c7835aa033daf6eacdcdf758

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 类型 | 约束 | 备注 |
| id | bigint | 主键 | id标识 |
| chain\_block\_seq | bigint |  | 链的区块号 |
| chain\_id | bigint |  | 主外键，链的ID |
| hash | varchar |  | 区块hash地址 |
| block\_header | varchar |  | 区块的头信息 |

## 1.5 链上存款表 deposit\_info

描述：deposit\_1

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 类型 | 约束 | 备注 |
| chain\_id | bigint | 主键 | 链id |
| chain\_deposit\_data | varchar |  | 链的存款信息 |

## 1.6 存款记录表 deposit\_history

描述：deposit\_1\_1

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 类型 | 约束 | 备注 |
| id | bigint | 主键 | id |
| chain\_id | bigint |  | 主外键，链的ID |
| seq | bigint |  | 链的索引 |
| deposit\_data | text |  | 存款内容 |

## 1.7 链上取款表 withdrawal\_info

描述：withdrawal\_1

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 类型 | 约束 | 备注 |
| chain\_id | bigint | 主键 | 链id |
| chain\_withdrawal\_data | varchar |  | 链的取款信息 |

## 1.8 取款记录表 withdrawal\_history

描述：deposit\_1\_1

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 类型 | 约束 | 备注 |
| id | bigint | 主键 | id |
| chain\_id | bigint |  | 链的ID |
| seq | bigint |  | 链的索引 |
| withdrawal\_data | text |  | 取款内容 |

## 1.9 验证节点切换记录 change\_validator\_history

|  |  |  |  |
| --- | --- | --- | --- |
| 字段 | 类型 | 约束 | 备注 |
| id | bigint | 主键 | id |
| chain\_id | bigint |  | 链的ID |
| index | bigint |  | 切换索引 |
| change\_data | text |  | 切换内容 |